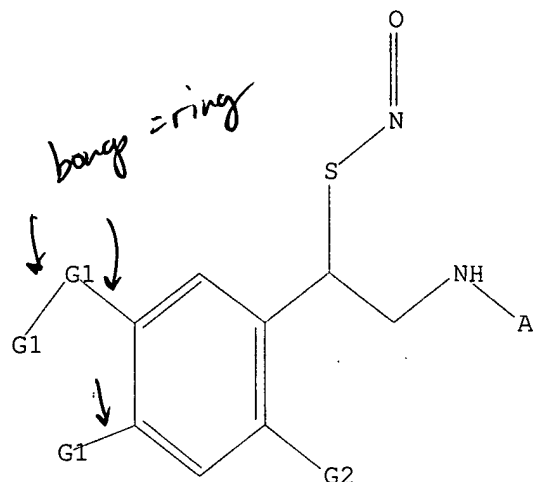


STN Structure Search (Registry/Caplus)

10/512,024

12/17/2007

=> d
L1 HAS NO ANSWERS
L1 STR



G1 C, O, N
G2 H, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 16:39:00 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

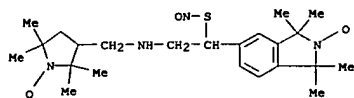
100.0% PROCESSED 2 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> d scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2H-Isoindol-2-yloxy,
1,3-dihydro-1,1,3,3-tetramethyl-5-[1-(nitrosothio)-2-
[[(2,2,5,5-tetramethyl-1-oxy-3-pyrrolidinyl)methyl]amino]ethyl]- (9CI)
MF C23 H36 N4 O3 S
CI COM



ALL ANSWERS HAVE BEEN SCANNED

10/512,024

12/17/2007

=> s l1 full ✓
FULL SEARCH INITIATED 16:39:24 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - ✓ 16 TO ITERATE

100.0% PROCESSED ✓ 16 ITERATIONS
SEARCH TIME: 00.00.01

4 ANSWERS

L3 4 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
172.10	172.31

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:39:28 ON 17 DEC 2007
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FILE LAST UPDATED: 14 Dec 2007 (20071214/ED)

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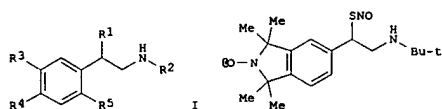
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L4 1 L3
=> d ibib abs hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:855797 CAPLUS
 DOCUMENT NUMBER: 139:350628
 TITLE: Preparation of pyrrolidine derivatives having nitric oxide donor groups or reactive oxygen species scavenger groups for treatment of respiratory disorders
 INVENTOR(S): Haj-Yehia, Abdullah Ibrahim
 PATENT ASSIGNEE(S): Yissum Research Development Company of the Hebrew University of Jerusalem, Israel
 SOURCE: PCT Int. Appl., 105 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

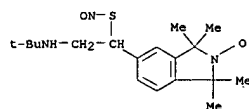
Instant App.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003088961	A1	20031030	WO 2003-IL312	20030415
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003226603	A1	20031103	AU 2003-226603	20030415
EP 1503754	A1	20050209	EP 2003-746878	20030415
EP 1503754	B1	20051123		
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JP 2005533013	T	20051104	JP 2003-585713	20030415
AT 310514	T	20051215	AT 2003-746878	20030415
US 2005228184	A1	20051013	US 2005-512024	20050509
PRIORITY APPLN. INFO.:			US 2002-374173P	P 20020419
			WO 2003-IL312	W 20030415

OTHER SOURCE(S): MARPAT 139:350628
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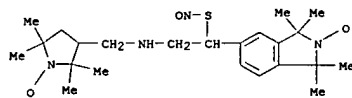


L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

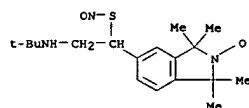


● HCl

RN 618438-59-8 CAPLUS
 CN 2H-Isoindol-2-yloxy,
 1,3-dihydro-1,1,3,3-tetramethyl-5-[1-(nitrosothio)-2-
 {[(2,2,5,5-tetramethyl-1-oxy-3-pyrrolidinyl)methyl]amino}ethyl]- (9CI)
 (CA INDEX NAME)



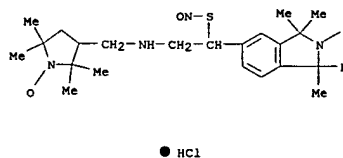
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 CN 2H-Isoindol-2-yloxy,
 5-[2-[(1,1-dimethylethyl)amino]-1-(nitrosothio)ethyl]-
 1,3-dihydro-1,1,3,3-tetramethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 AB The title compds. I [wherein R1 = OH, ONO, ONO2, SNO, or NONO; R2 = reactive oxygen species (ROS) scavenger group or NO donor group, etc.; R3 and R4 = independently OH, CH2OH, NH2, or NHCHO; or R3 and R4 together form a substituted heterocycle or a protecting group; R5 = H, OH, CH2OH, NH2, NHCHO, alkyl, or alkoxy; etc.] and salts, solvates, or optical isomers thereof are prepared as β -agonists for the treatment of respiratory diseases involving airway obstruction, such as asthma or chronic bronchitis. For example, the compound II-HCl was prepared in a multi-step synthesis. II showed a more relaxation effect than salbutamol in guinea pig.
 IT 618438-41-8P 618438-42-9P 618438-59-8P
 618438-60-1P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

oxide (drug candidate; preparation of pyrrolidine derivs. having nitric donor groups or reactive oxygen species scavenger groups for treatment of respiratory disorders)
 RN 618438-41-8 CAPLUS
 CN 2H-Isoindol-2-yloxy,
 1,3-dihydro-1,1,3,3-tetramethyl-5-[1-(nitrosothio)-2-
 {[(2,2,5,5-tetramethyl-1-oxy-3-pyrrolidinyl)methyl]amino}ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



RN 618438-42-9 CAPLUS
 CN 2H-Isoindol-2-yloxy,
 5-[2-[(1,1-dimethylethyl)amino]-1-(nitrosothio)ethyl]-
 1,3-dihydro-1,1,3,3-tetramethyl-, monohydrochloride (9CI) (CA INDEX NAME)

548/467

C07D 209/44

548/470

574/414

A61K31/4035

574/416

A61K31/